

CURRICULUM VITAE

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EDUCATION:

1982: B. Sc. in Physics, IIT, Kharagpur, India

1984: M. Sc. in Physics, IIT, Kharagpur, India

1989: Ph. D. in Physics, Tata Institute of Fundamental Research, Bombay, India

EMPLOYMENT:

1989-91: Post-doctoral fellow at Brookhaven National Laboratory

1991-92: Post-doctoral fellow at Centre de Energie Atomique, Saclay:

1992-95: Post-doctoral fellow at Los Alamos National Laboratory:

1995-99: Limited Term Staff Member at Los Alamos National Laboratory:

1999- : Staff Member at Los Alamos National Laboratory:

PUBLICATIONS:

A. Papers:

- [1] Testing improved staggered fermions with m_s and B_K .
(W. Lee, T. Bhattacharya, G.T. Fleming, G. Kilcup, R. Gupta, and S. Sharpe)
Los Alamos Preprint LA-UR-04-4788, Jul. 2004; University of Washington Preprint UW/PT 04-11, and Seoul National University Preprint SNUTP-04-008.
[arXiv:hep-lat/0409047](http://arxiv.org/abs/hep-lat/0409047)
- [2] Feedback cooling of atomic motion in cavity QED.
(D.A. Steck, K. Jacobs, H. Mabuchi, T. Bhattacharya, and S. Habib)
Los Alamos Preprint LA-UR-04-4687, Jul. 2004.
- [3] Successive dominance of human immunodeficiency virus type 1 sequences in patients receiving combination antiretroviral therapy.
(C.L. Kuiken, K. Kunstman, T. Bhattacharya, J. Kunstman, K. Kommander, J. Phair, B. Good, S. Pillai, and S. Wolinsky)
Los Alamos Preprint LA-UR-04-5456.
in preparation.

- [4] Quantum Feedback Control of Atomic Motion in an Optical Cavity.
 (T. Bhattacharya, S. Habib, K. Jacobs, H. Mabuchi, and D.A. Steck)
Phys. Rev. Lett. **92**, (2004) 223004;
doi:10.1103/PhysRevLett.92.223004.
 Los Alamos preprint LAUR-03-6836, Sep. 2003.
 arXiv:quant-ph/0310153
- [5] The transition to classical chaos in a coupled quantum system through continuous measurement.
 (S. Ghose, P. Alsing, I. Deutsch, T. Bhattacharya, S. Habib, and K. Jacobs)
Phys. Rev. A **69**, (2004) 052116;
doi:10.1103/PhysRevA.69.052116.
 Los Alamos preprint LAUR-03-5886, Aug. 2003.
 arXiv:quant-ph/0309093
- [6] Improved bilinears in lattice QCD with non-degenerate quarks.
 (T. Bhattacharya, R. Gupta, W. Lee, S. Sharpe, and J.M.S. Wu)
 Los Alamos preprint LAUR-03-4939, Jul. 2003 and University of Washington preprint UW/PT 03-20, Sep. 2003.
- [7] Scaling behavior of discretization errors in renormalization and improvement constants.
 (T. Bhattacharya, R. Gupta, W. Lee, and S. Sharpe)
 Los Alamos preprint LAUR-03-3849, Jun. 2003.
- [8] Consensus and Ancestral State HIV Vaccines: Response.
 (F. Gao, T. Bhattacharya, B. Gaschen, J. Taylor, J.P. Moore, V. Novitsky, K. Yusim, D. Lang, B. Foley, S. Beddows, M. Alam, B. Haynes, B.H. Hahn, and B.T. Korber)
Science **299** (2003) 1517-1518 (Mar 7, 2003; number 5612);
doi:10.1126/science.299.5612.1515c
 PubMed id 12624248.
- [9] Timing of the HIV-1 subtype C epidemic in Ethiopia: An improved estimate using maximum likelihood methods
 (U. Smith, T. Bhattacharya, and C.L. Kuiken)
 Los Alamos preprint LA-UR-02-7315, Nov. 2002.
- [10] Continuous Quantum Measurement and the Quantum to Classical Transition.
 (T. Bhattacharya, S. Habib, and K. Jacobs)
Phys. Rev. A **67**, (2003) 042103;
doi:10.1103/PhysRevA.67.042103.
 Los Alamos preprint LAUR-02-5289, Aug. 2002.
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- [11] Recovering Classical Dynamics from Coupled Quantum Systems through Continuous Measurement.
 (S. Ghose, P. Alsing, I. Deutsch, T. Bhattacharya, S. Habib, and K. Jacobs)
 Phys. Rev. **A67**, (2003) 052102;
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 Los Alamos preprint LAUR-01-5290, Aug. 2002.
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- [12] Diversity Considerations in HIV-1 Vaccine Selection.
 (B. Gaschen, J. Taylor, K. Yusim, B. Foley, F. Gao, D. Lang, V. Novitsky, B. Haynes, B.H. Hahn, T. Bhattacharya, and B.T. Korber)
 Science **296** (2002) 2354-2360 (Jun 28, 2002; number 5577);
doi:10.1126/science.1070441; Available without subscription;
 PubMed id 12089434.
- [13] Strange Happenings at the Quantum-Classical Boundary: The Delta-Kicked Rotor. or The delta-function-kicked rotor: Momentum diffusion and the quantum-classical boundary.
 (T. Bhattacharya, S. Habib, K. Jacobs, and K. Shizume)
 Los Alamos preprint LAUR-01-1909, May 2001. LAUR-01-6307, Nov. 2001.
 Phys. Rev. **A65**, (2002) 032115;
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 arXiv:quant-ph/0105086
- [14] Order a Improved Renormalization Constants.
 (T. Bhattacharya, R. Gupta, W. Lee, and S. Sharpe)
 Phys. Rev. **D63**, (2001) 074505;
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 Los Alamos preprint LAUR-00-3538, University of Washington preprint UW-PT/00-16, Sep. 2000.
 arXiv:hep-lat/0009038
- [15] Search for the Origin of HIV and AIDS : Response.
 (B.T. Korber, T. Bhattacharya, J. Theiler, R. Gupta, A. Lapedes, B.H. Hahn, F. Gao, M. Muldoon, and S. Wolinsky)
 Science **289** (2000) 1140-1141 (Aug 18, 2000; number 5482);
doi:10.1126/science.289.5482.1140;
 PubMed id 10970225.
- [16] Timing the Origin of the HIV Epidemic.
 (B.T. Korber, M. Muldoon, J. Theiler, F. Gao, R. Gupta, A. Lapedes, B.H. Hahn, S. Wolinsky, and T. Bhattacharya)
 Science **288** (2000) 1789-1796 (June 9, 2000; number 5472);
doi:10.1126/science.288.5472.1789;
 PubMed id 10846155.

- [17] Continuous Quantum Measurement and the Emergence of Classical Chaos.
 (T. Bhattacharya, S. Habib, and K. Jacobs)
Phys. Rev. Lett. **85**, (2000) 4852;
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 Los Alamos preprint LA-UR-99-3187.
[arXiv:quant-ph/9906092](https://arxiv.org/abs/quant-ph/9906092)
- [18] Non-perturbative Renormalization Constants using Ward Identities.
 (T. Bhattacharya, S. Chandrasekharan, R. Gupta, W. Lee, and S. Sharpe)
Phys. Lett. **B461**, (1999) 79-88;
doi:10.1016/S0370-2693(99)00796-0.
 Los Alamos preprint LAUR-99-1717, University of Washington preprint UW-PT/98-15, University of Tsukuba preprint UTCCP-P-56, and Duke University preprint DUKE-TH-99-185, Apr. 1999.
[arXiv:hep-lat/9904011](https://arxiv.org/abs/hep-lat/9904011)
- [19] Heavy-light Mesons and Baryons with b Quarks.
 (A. Ali Khan, T. Bhattacharya, S. Collins, C.T.H. Davies, C. Morningstar, R. Gupta, J. Shigemitsu, and J. Sloan)
Phys. Rev. **D62**, (2000) 054505;
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[arXiv:hep-lat/9912034](https://arxiv.org/abs/hep-lat/9912034)
- [20] B Meson Decay Constants from NRQCD.
 (with A. Ali Khan, T. Bhattacharya, S. Collins, C.T.H. Davies, C. Morningstar, R. Gupta, J. Shigemitsu, and J. Sloan)
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[arXiv:hep-lat/9801038](https://arxiv.org/abs/hep-lat/9801038)
- [21] Duality and the Extraction of Light Quark Masses From Finite Energy and QCD Sum Rules.
 (T. Bhattacharya, R. Gupta, and K. Maltman)
Phys. Rev. **D57**, (1998) 5455-5467;
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 Los Alamos Preprint LA-UR-96-2698, Mar. 1997.
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- [22] Matrix Elements of 4-fermion Operators with Quenched Wilson Fermions.
 (R. Gupta, T. Bhattacharya, and S. Sharpe)
Phys. Rev. D55, (1997) 4036-4054;
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 Los Alamos Preprint LA-UR-96-1829 and University of Washington preprint UW/PT-96-12, Nov. 1996.
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- [23] Comment on “Gravitationally Induced Neutrino-Oscillation Phases.”
 (T. Bhattacharya, S. Habib and E. Mottola)
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- [24] Light Quark Masses from Lattice QCD.
 (R. Gupta and T. Bhattacharya)
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- [25] Large q Expansion of the 2D q -states Potts’ Model.
 (T. Bhattacharya, R. Lacaze and A. Morel)
J. Phys. I7 (1997) 81;
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 Saclay preprint SACLAY-SPHT-96-001, Jan 1996.
[arXiv:hep-lat/9601012](https://arxiv.org/abs/hep-lat/9601012)
- [26] Hadron Spectrum with Wilson fermions.
 (T. Bhattacharya, R. Gupta, G. Kilcup, and S. Sharpe)
Phys. Rev. D53, (1996) 6486-6508;
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 Los Alamos Preprint LA-UR-95-2354, Oct 1995.
[arXiv:hep-lat/9512021](https://arxiv.org/abs/hep-lat/9512021)
- [27] Decay Constants with Wilson Fermions at $\beta = 6.0$.
 (T. Bhattacharya and R. Gupta)
Phys. Rev. D54, (1996) 1155-1166;
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 Los Alamos Preprint LA-UR-95-2355, Oct 1995.
[arXiv:hep-lat/9510044](https://arxiv.org/abs/hep-lat/9510044)

- [28] Large Energy Cumulants in the 2-d Potts' Model and their Effects in Finite Size Analysis.
 (T. Bhattacharya, R. Lacaze and A. Morel)
Nucl. Phys. **B435**, (1995) 526-554;
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 Saclay Preprint SACLAY-SPHT-94-008.
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- [29] Semileptonic Form-Factors of Heavy-Light Mesons from Lattice QCD.
 (R. Gupta, T. Bhattacharya, and D. Daniel)
 Los Alamos Preprint, LA-UR-93-3580, Oct 1993.
[arXiv:hep-lat/9310007](https://arxiv.org/abs/hep-lat/9310007)
- [30] The Free Energy of the Potts' Model: From the Continuous to the First Order Transition Region.
 (T. Bhattacharya, R. Lacaze and A. Morel)
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[arXiv:hep-th/9303075](https://arxiv.org/abs/hep-th/9303075)
- [31] Critical Behavior of the Antiferromagnetic Heisenberg Model on a Stacked Triangular Lattice.
 (T. Bhattacharya, A. Billoire, R. Lacaze, and T. Jolicur)
J. Phys. **I4** (1994) 181-186;
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- [32] Z(N) Interface Tension in a Hot SU(N) Gauge Theory.
 (T. Bhattacharya, A. Gocksch, C.P. Korthals Altes, and R.D. Pisarski)
Nucl. Phys. **B383**, (1992) 497-524;
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- [33] Particles near Threshold.
 (T. Bhattacharya and S. Willenbrock)
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 Brookhaven Preprint BNL-46481, Jul. 1991.
- [34] Interface Tension in an SU(N) Gauge Theory at High Temperature.
 (T. Bhattacharya, A. Gocksch, C.P. Korthals Altes, and R.D. Pisarski)
Phys. Rev. Lett. **66**, (1991) 998-1000;
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- [35] Tree Unitarity in Broken Supergravity. 2. Double Gravitino Amplitude.
 (T. Bhattacharya and P. Roy)
Nucl. Phys. **B328**, (1989) 481;
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 TIFR preprint **TIFR/TH/88-41**, Oct. 1988.
- [36] Tree Unitarity in Broken Supergravity. 1. Single Gravitino Amplitude.
 (T. Bhattacharya and P. Roy)
Nucl. Phys. **B328**, (1989) 469;
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 TIFR preprint **TIFR/TH/88-38**, Jun. 1988.
- [37] Role of Chiral Scalar and Pseudoscalar in Two Photon Production of a Superlight Gravitino.
 (T. Bhattacharya and P. Roy)
Phys. Rev. **D38**, (1988) 2284;
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 TIFR preprint **TIFR/TH/88-11**, May 1988.
- [38] Unitarity Limit on the Gaugino-Gravitino Mass Ratio.
 (T. Bhattacharya and P. Roy)
Phys. Lett. **B206**, (1988) 655.
 TIFR preprint **TIFR/TH/88-4**, Mar. 1988.
- [39] Probing a Superlight Gravitino in Photon-Photon Collisions.
 (T. Bhattacharya and P. Roy)
Phys. Rev. Lett. **59**, (1987) 1517;
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 TIFR preprint **TIFR/TH/87-15**, Jul. 1987.
- [40] Constraint on Unstable Photino Mass from an Ultralight Gravitino.
 (T. Bhattacharya and P. Roy)
Pramana **28** (1987) L699.
 TIFR preprint **TIFR/TH/87-1**, Mar. 1987.
- [41] The Gel'fand Realization and the Exceptional Representations of $SL(2, R)$.
 (D. Basu and T. Bhattacharya)
J. Math. Phys. **26** (1985) 12;
doi:10.1063/1.526799.

B. Talks and other unrefereed publications:

This section contains those talks which were presented at conferences and formed part of the proceedings. I have excluded the talks presented by my collaborators when I played no significant role in authoring the writeup. Hence a [spires search](#) for my name is likely to find some articles not mentioned here.

- [1] Calculating epsilon' = epsilon Using HYP staggered fermions.
([T. Bhattacharya](#), [G.T. Fleming](#), [G. Kilcup](#), [R. Gupta](#), [W. Lee](#), and [S. Sharpe](#))
Los Alamos Preprint [LA-UR-04-5236](#).
[arXiv:hep-lat/0409046](#)
- [2] Calculating weak matrix elements using HYP fermions.
([T. Bhattacharya](#), [G.T. Fleming](#), [G. Kilcup](#), [R. Gupta](#), [W. Lee](#), and [S. Sharpe](#))
Proceedings of the 21st International Symposium on Lattice Field Theory, Tsukuba, Japan, 2003, Eds. S. Aoki, *et al.*, Nucl. Phys. (Proc. Suppl.) **B129**, (2003) 257-259;
doi:10.1016/S0920-5632(03)02547-7.
Los Alamos Preprint [LA-UR-03-6654](#); Seoul National University Preprint [SNUTP-03-020](#); and University of Washington Preprint [UW-PT 03-19](#).
[arXiv:hep-lat/0309105](#)
- [3] Improved bilinears in unquenched lattice QCD.
([T. Bhattacharya](#), [R. Gupta](#), [W. Lee](#), [S. Sharpe](#), and Jackson M.S. Wu)
Proceedings of the 21st International Symposium on Lattice Field Theory, Tsukuba, Japan, 2003, Eds. S. Aoki, *et al.*, Nucl. Phys. (Proc. Suppl.) **B129**, (2004) 441-443;
doi:10.1016/S0920-5632(03)02608-2.
Los Alamos Preprint [LA-UR-03-6623](#), Seoul National University Preprint [SNUTP-03-019](#), and University of Washington Preprint [UW-PT 03-12](#).
[arXiv:hep-lat/0309087](#)
- [4] Progress report on the staggered epsilon' = epsilon project.
([T. Bhattacharya](#), [G.T. Fleming](#), [G. Kilcup](#), [R. Gupta](#), [W. Lee](#), and [S. Sharpe](#))
Proceedings of the 20th International Symposium on Lattice Field Theory, Boston, Massachusetts, USA, 2002, Eds. M. Edwards, *et al.*, Nucl. Phys. (Proc. Suppl.) **B119**, (2003) 428-430;
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Seoul National University Preprint [SNUTP-02-028](#).
[arXiv:hep-lat/0208050](#)

- [5] Preface.
 (T. Bhattacharya and N. Cooper)
 Los Alamos Science **27** (2002) x-xii.
- [6] Emergence of Classical Dynamics in a Quantum World.
 (T. Bhattacharya, S. Habib, and K. Jacobs)
 Los Alamos Preprint LA-UR-02-0786
 Los Alamos Science **27** (2002) 110-125.
 arXiv:quant-ph/0407096
- [7] Scaling behavior of improvement and renormalization constants.
 (T. Bhattacharya, R. Gupta, W. Lee, and S. Sharpe)
 Proceedings of the 19th International Symposium on Lattice Field Theory, Berlin, Germany, 2001, Eds. M. Muller-Preussker, *et al.*, Nucl. Phys. (Proc. Suppl.) **B106**, (2002) 789-791;
doi:10.1016/S0920-5632(01)01844-8.
 Los Alamos Preprint LA-UR-01-5861
 arXiv:hep-lat/0111001
- [8] Weak Matrix Elements for CP Violation.
 Proceedings of the 19th International Symposium on Lattice Field Theory, Berlin, Germany, 2001, Eds. M. Muller-Preussker, *et al.*, Nucl. Phys. (Proc. Suppl.) **B106**, (2002) 311-313;
doi:10.1016/S0920-5632(01)01698-X.
 (T. Bhattacharya, G.T. Fleming, G. Kilcup, R. Gupta, W. Lee, and S. Sharpe)
 Los Alamos Preprint LA-UR-01-5951
 arXiv:hep-lat/0111004
- [9] Renormalization Constants using Quark States in Landau Gauge.
 (T. Bhattacharya, R. Gupta, and W. Lee)
 Proceedings of the 19th International Symposium on Lattice Field Theory, Berlin, Germany, 2001, Eds. M. Muller-Preussker, *et al.*, Nucl. Phys. (Proc. Suppl.) **B106**, (2002) 786-788;
doi:10.1016/S0920-5632(01)01843-6.
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 arXiv:hep-lat/0111002
- [10] Renormalization Constants using Quark States in Fixed Gauge.
 (T. Bhattacharya, R. Gupta, and W. Lee)
 Proceedings of the 18th International Symposium on Lattice Field Theory, Bangalore, India, 2000, Eds. T. Bhattacharya, *et al.*, Nucl. Phys. (Proc. Suppl.) **B94**, (2001) 595-598;
doi:10.1016/S0920-5632(01)00874-X.
 Los Alamos Preprint LAUR-01-0355
 arXiv:hep-lat/0106007

- [11] Improvement and Renormalization Constants in $O(a)$ Improved Lattice QCD.
 (T. Bhattacharya, R. Gupta, W. Lee, and S. Sharpe)
 Proceedings of the 18th International Symposium on Lattice Field Theory, Bangalore, India, 2000, Eds. T. Bhattacharya, *et al.*, Nucl. Phys. (Proc. Suppl.) **B94**, (2001) 599-602;
doi:10.1016/S0920-5632(01)00935-5.
 Los Alamos Preprint LAUR-00-5683
 arXiv:hep-lat/0101007
- [12] Using Human Immunodeficiency Virus Type 1 Sequences to Infer Historical Features of the Acquired Immune Deficiency Syndrome Epidemic and Human Immunodeficiency Virus Evolution.
 (K. Yusim, M. Peeters, O.G. Pybus, T. Bhattacharya, E. Delaporte, C. Mulanga, M. Muldoon, J. Theiler, and B.T. Korber)
 Proceedings of the Royal Society, London, **B356** (2001) 855-866;
doi:10.1098/rstb.2001.0859;
 PubMed id 11405933.
- [13] Fixed-point Pure Gauge Action using $b = \sqrt{3}$ RGT.
 (T. Bhattacharya, R. Gupta and W. Lee)
 Proceedings of the 17th International Symposium on Lattice Field Theory, Pisa, Italy, 1999, Eds. M. Campostrini, *et al.*, Nucl. Phys. (Proc. Suppl.) **B83**, (2000) 860-872;
doi:10.1016/S0920-5632(00)00465-5.
 Los Alamos Preprint LAUR-99-4709
 arXiv:hep-lat/9910046
- [14] Order a Improved Renormalization Constants.
 (T. Bhattacharya, R. Gupta, W. Lee, and S. Sharpe)
 Proceedings of the 17th International Symposium on Lattice Field Theory, Pisa, Italy, 1999, Eds. M. Campostrini, *et al.*, Nucl. Phys. (Proc. Suppl.) **B83**, (2000) 851-853;
doi:10.1016/S0920-5632(00)00462-X.
 Los Alamos Preprint LA-UR-99-4973
 arXiv:hep-lat/9909115
- [15] Non-perturbative Improvement of Bilinears in Unquenched QCD.
 (T. Bhattacharya, R. Gupta, W. Lee, and S. Sharpe)
 Proceedings of the 17th International Symposium on Lattice Field Theory, Pisa, Italy, 1999, Eds. M. Campostrini, *et al.*, Nucl. Phys. (Proc. Suppl.) **B83**, (2000) 902-904;
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 arXiv:hep-lat/9909092

- [16] Non-perturbative Renormalization Constants using Ward Identities.
 (T. Bhattacharya, S. Chandrasekharan, R. Gupta, W. Lee, and S. Sharpe)
 Proceedings of the 16th International Symposium on Lattice Field Theory, Boulder, Colorado, USA, 1998, Eds. T. DeGrand, *et al.*, Nucl. Phys. (Proc. Suppl.) **B73**, (1999) 276-278;
doi:10.1016/S0920-5632(99)85046-4.
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 arXiv:hep-lat/9810018
- [17] f_B and f_{B_s} using NRQCD.
 (T. Bhattacharya)
 Proceedings of the 16th International Symposium on Lattice Field Theory, Boulder, Colorado, USA, 1998, Eds. T. DeGrand, *et al.*, Nucl. Phys. (Proc. Suppl.) **B73**, (1999) 369-371;
doi:10.1016/S0920-5632(99)85076-2.
 Los Alamos preprint LAUR-98-4266
 arXiv:hep-lat/9810015
- [18] Advances in Determination of Quark Masses.
 (T. Bhattacharya and R. Gupta)
 Proceedings of the 15th International Symposium on Lattice Field Theory, Edinburgh, Scotland, 1997, Eds. C.T.H. Davies, *et al.*, Nucl. Phys. (Proc. Suppl.) **B63**, (1998) 95-107;
doi:10.1016/S0920-5632(97)00701-9.
 Los Alamos preprint LAUR-97-4355, Jul 1997.
 arXiv:hep-lat/9710095
- [19] B and B_c Mesons with NRQCD and Clover Actions.
 (A. Ali Khan and T. Bhattacharya)
 Proceedings of the 14th International Symposium on Lattice Field Theory, St. Louis, USA, 1996, Eds. C. Bernard, *et al.*, Nucl. Phys. (Proc. Suppl.) **B53**, (1997) 368-373;
doi:10.1016/S0920-5632(96)00662-7.
 Los Alamos Preprint LA-UR-96-3338, Jun 1996.
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- [20] Light Quark Masses and the CP Violation Parameter epsilon prime = epsilon .
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doi:10.1016/S0920-5632(96)00640-8.
 Los Alamos Preprint LA-UR-96-3337, Jun 1996.
 arXiv:hep-lat/9609046

- [21] Comparison of Inversion Algorithms for Wilson Fermions on the CM5.
([R. Gupta](#), [T. Bhattacharya](#), and [G. Kilcup](#))
Los Alamos Preprint [LA-UR-96-1115](#), May 1996. (Talk presented at Workshop on Accelerating Fermion Algorithms, Julich, February 1996, by [R. Gupta](#)).
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